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FIG.2

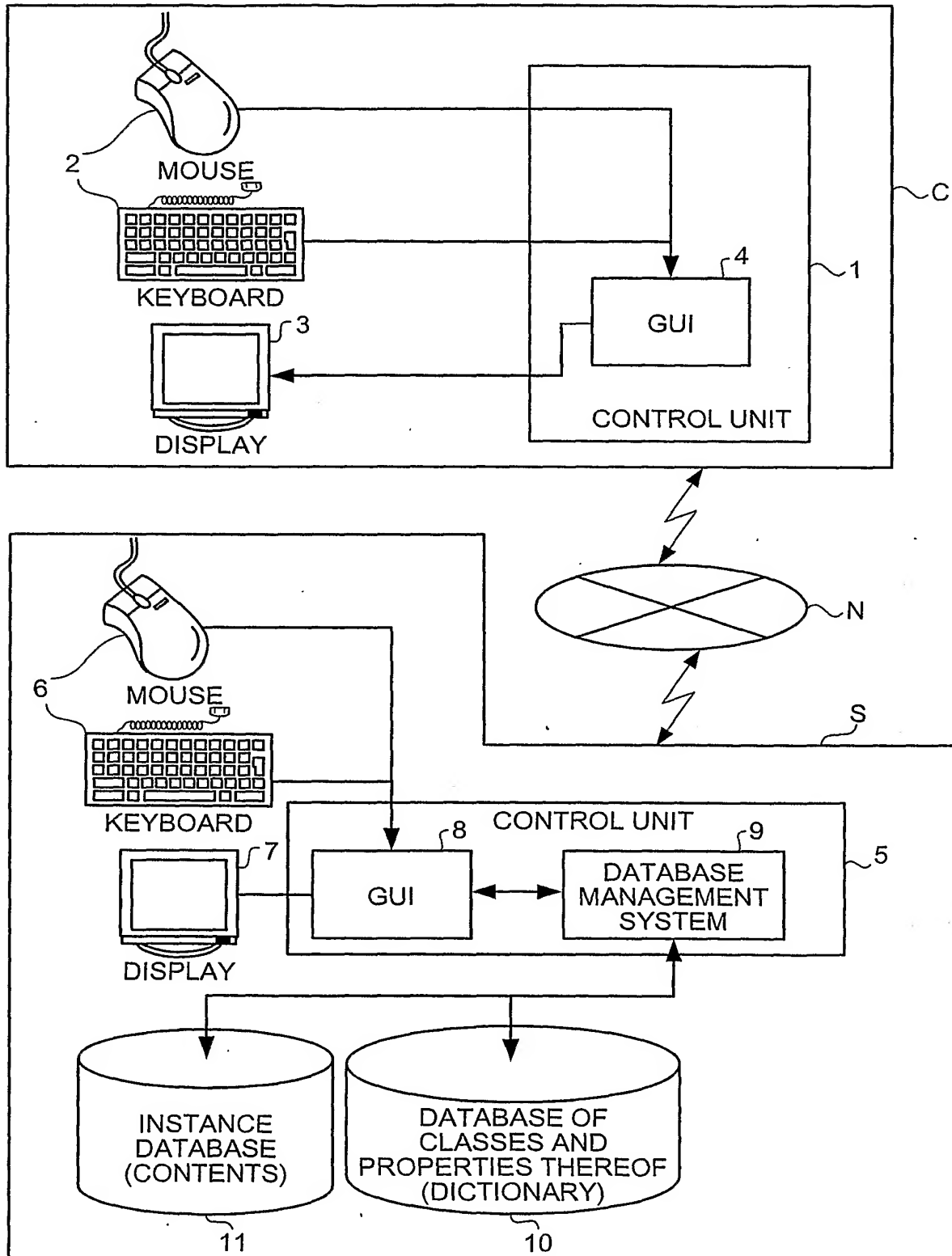


FIG.3

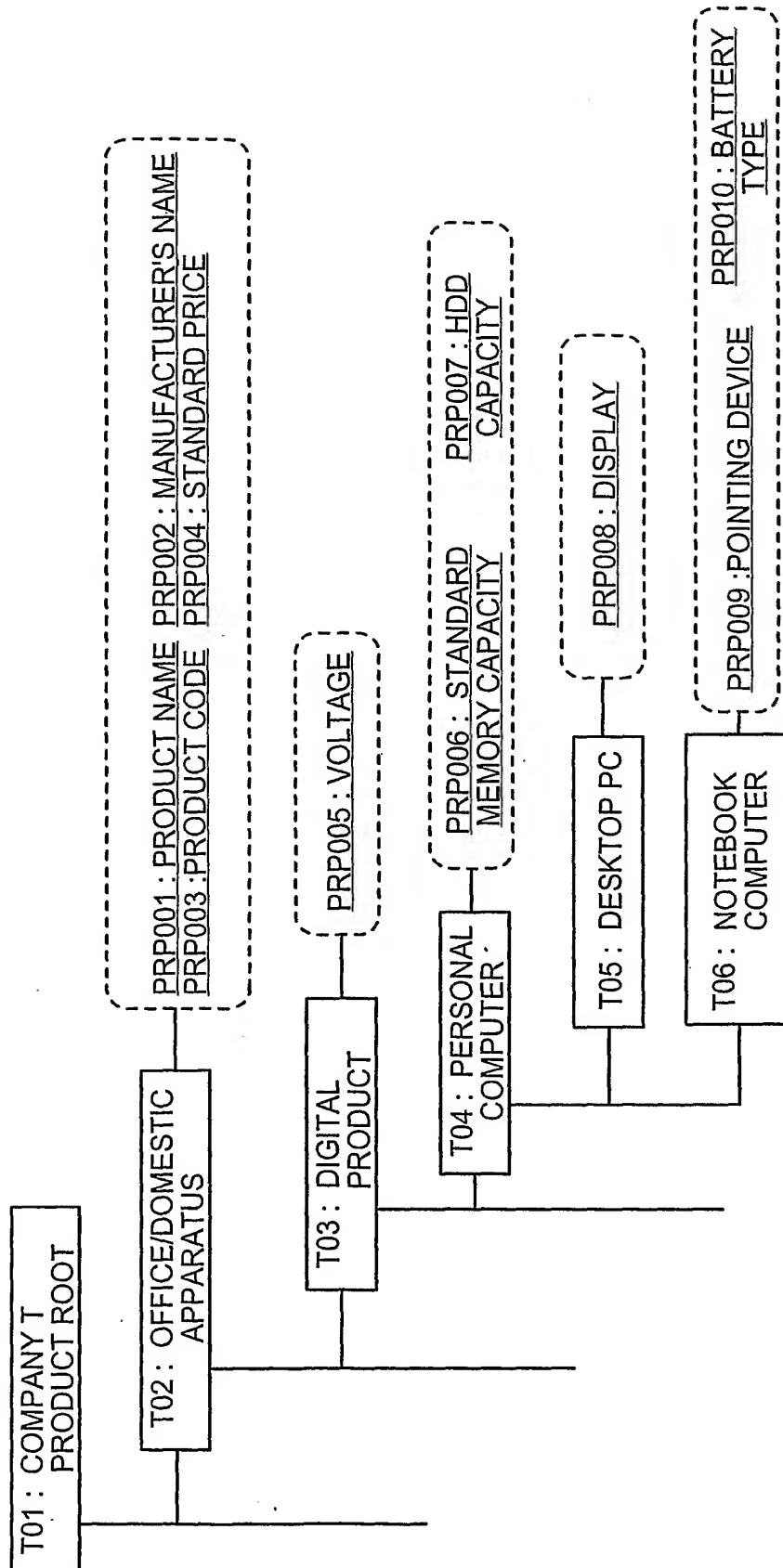


FIG.4

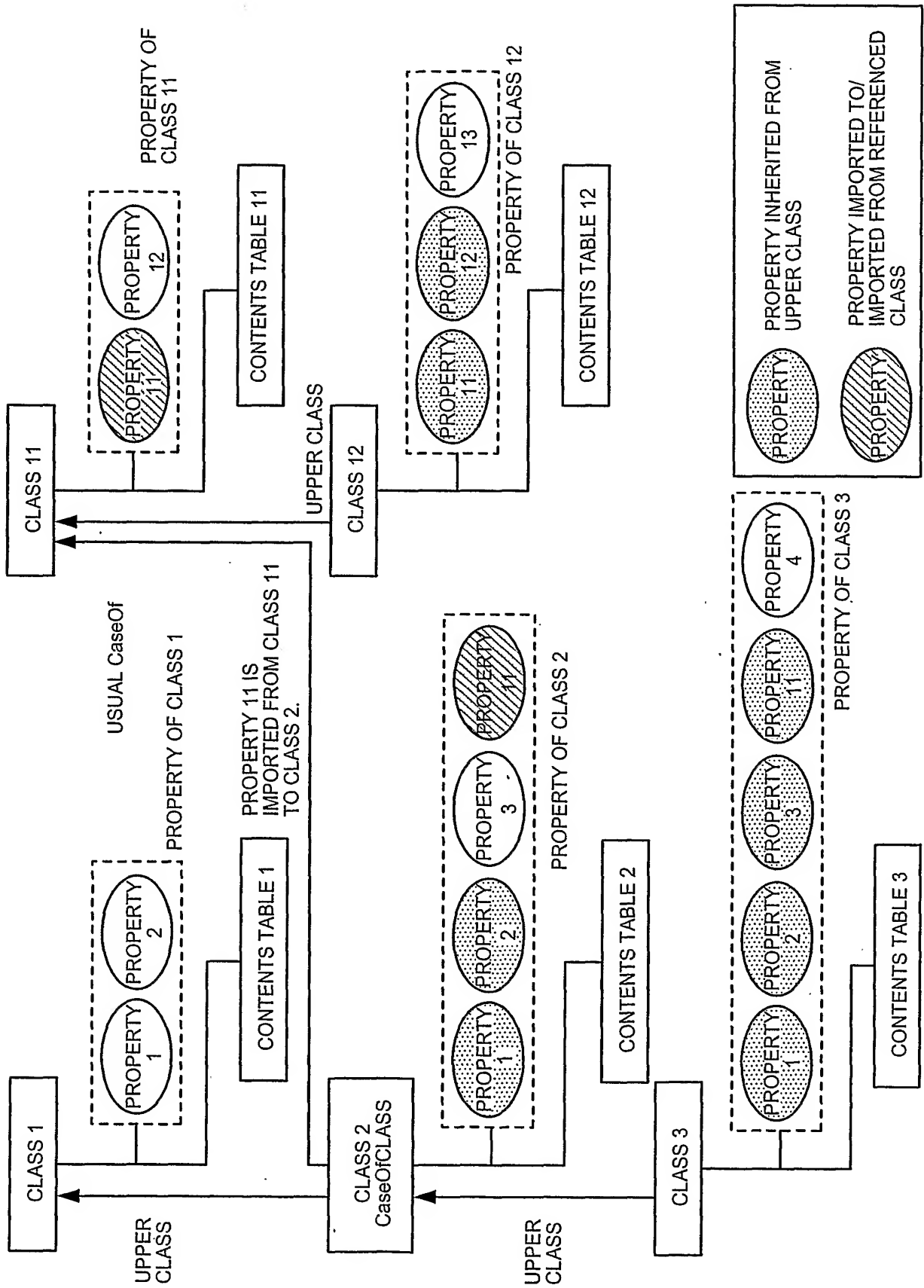
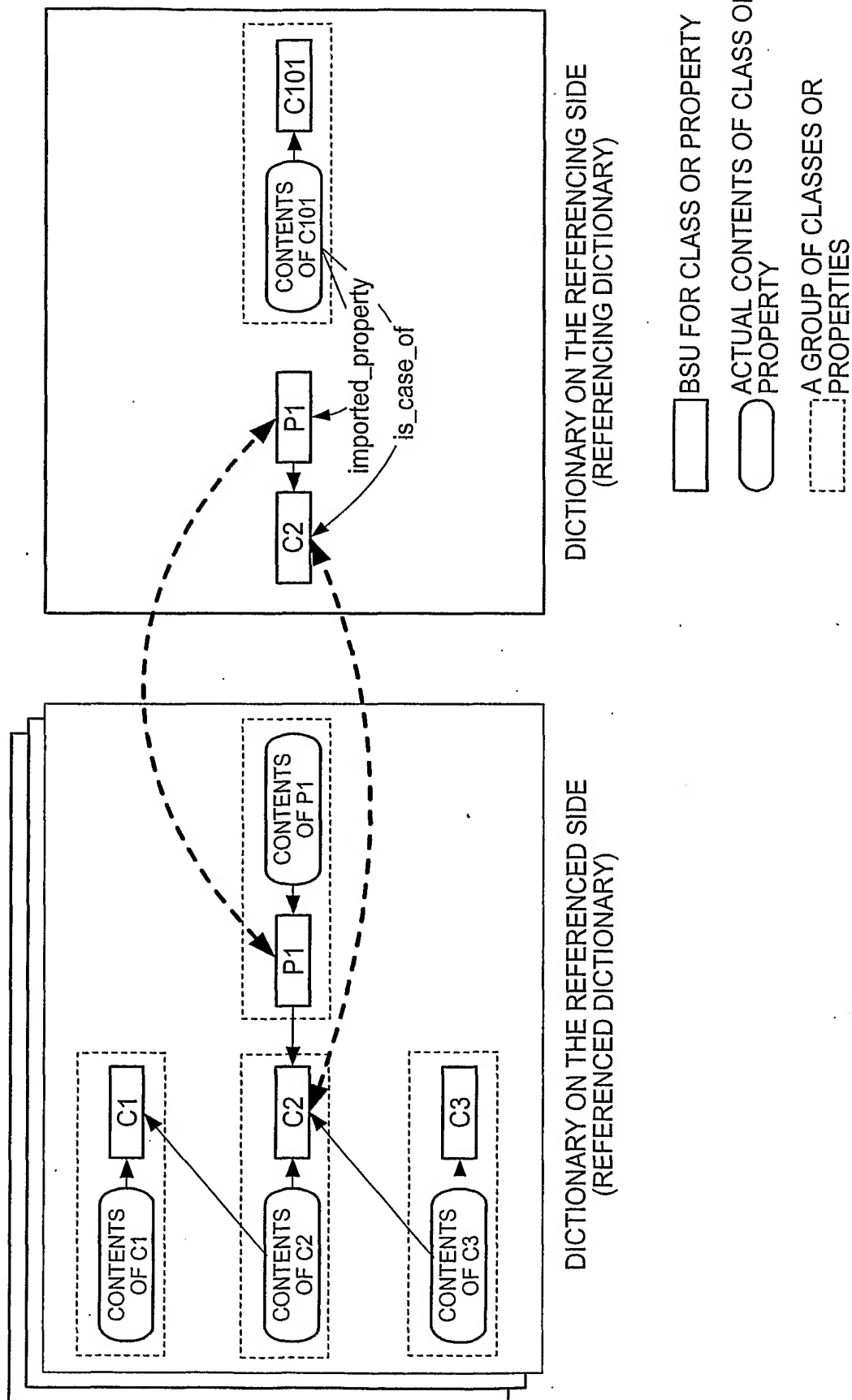
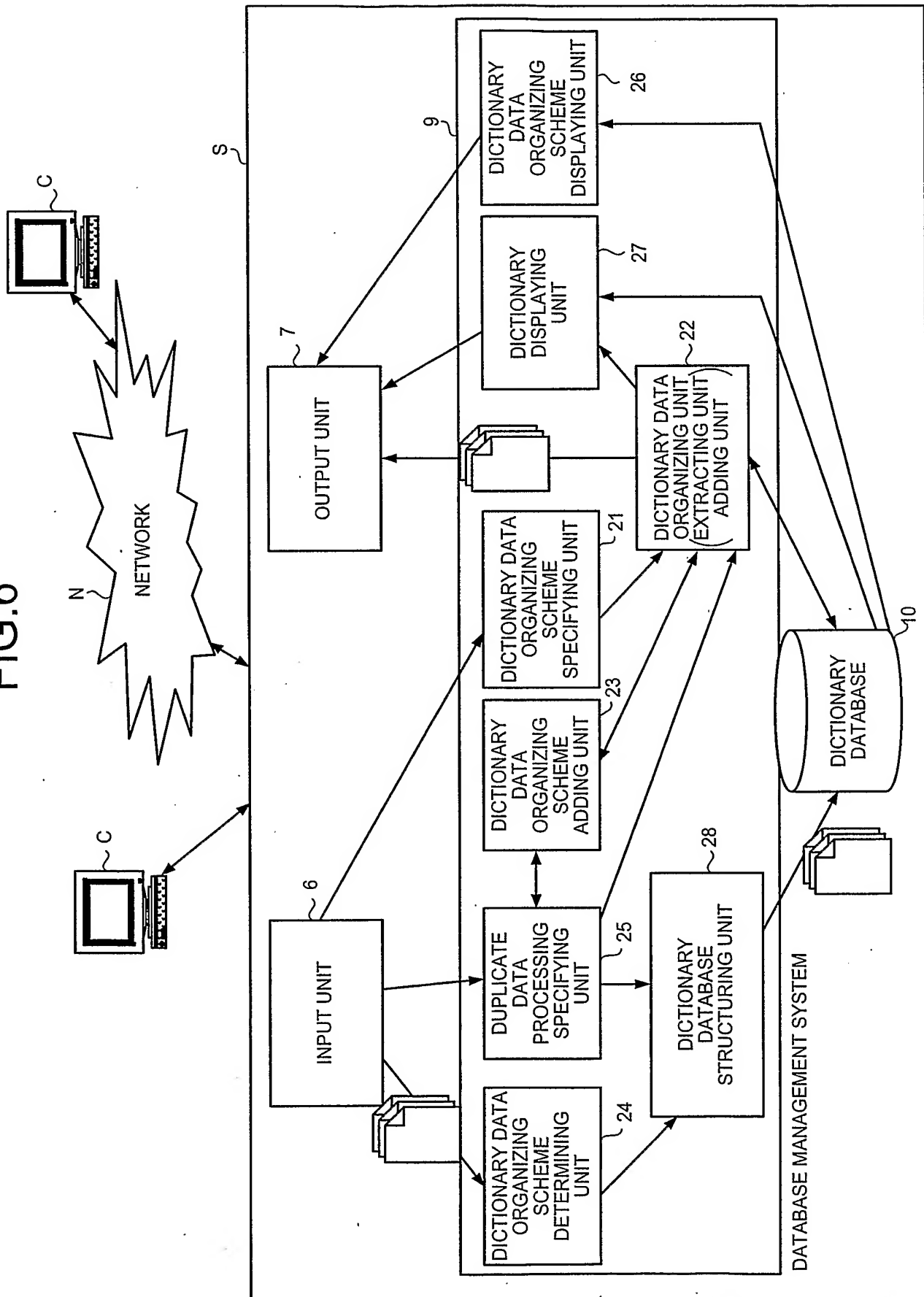


FIG.5



**FIG. 6**



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FIG.7

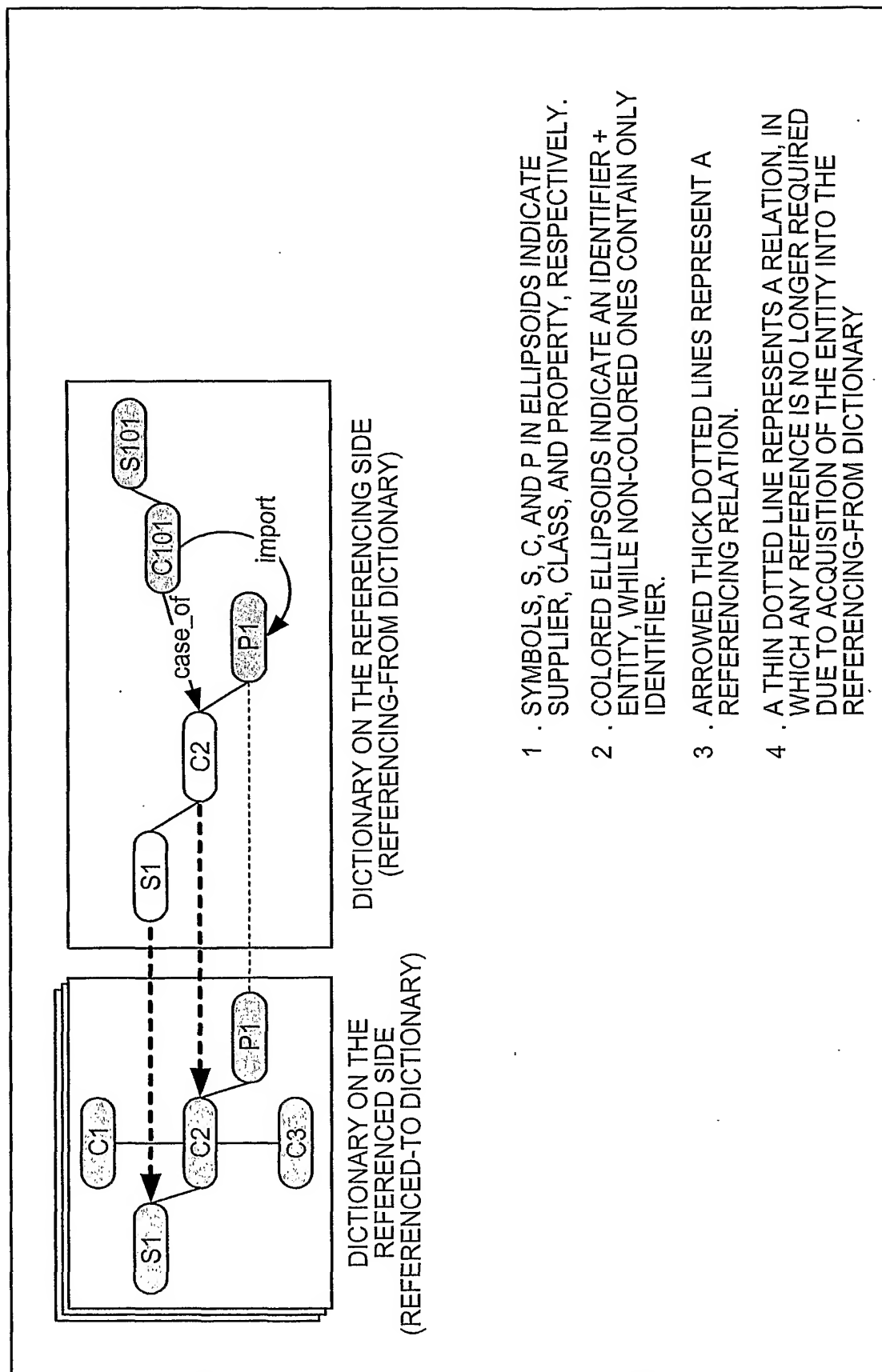


FIG.8

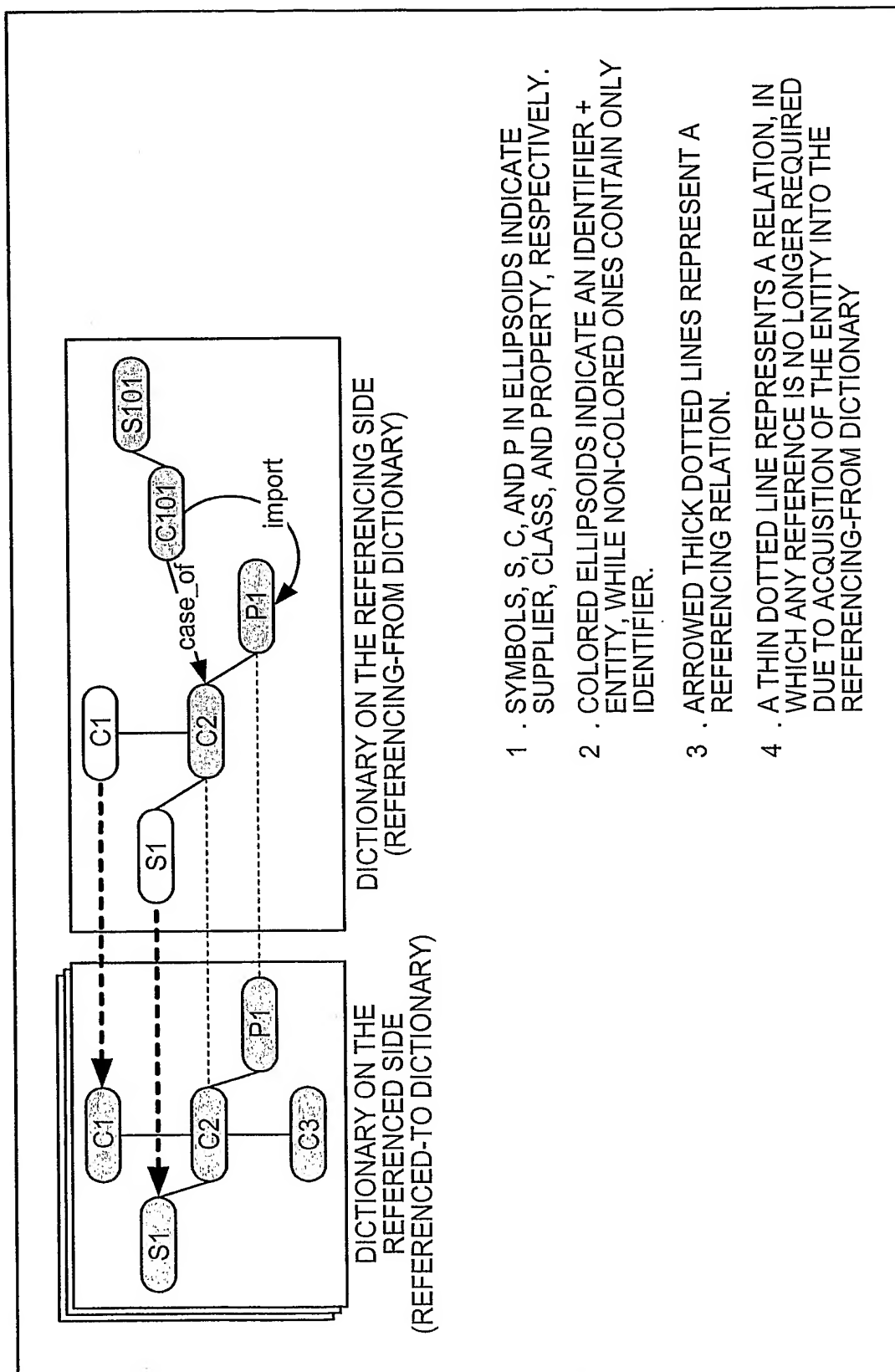
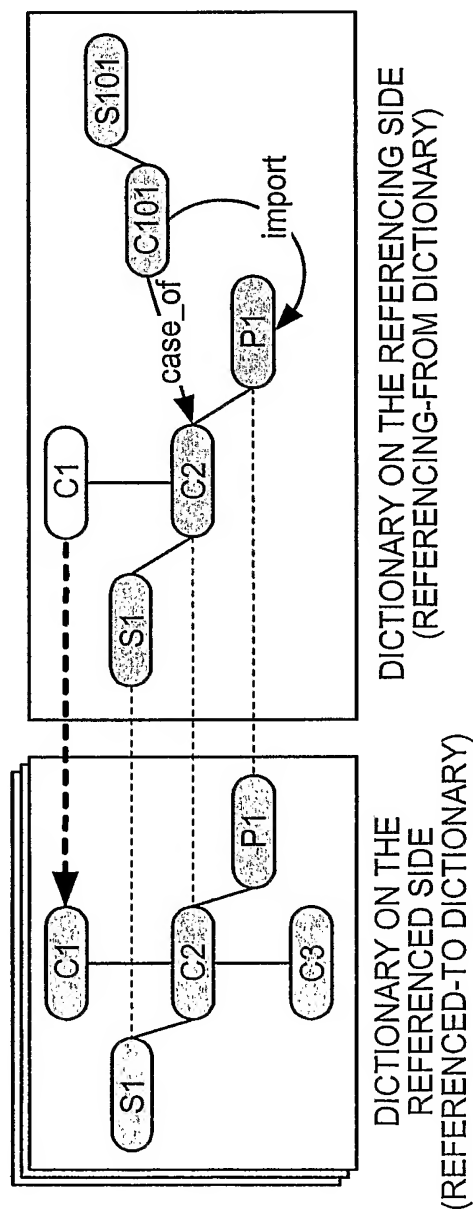




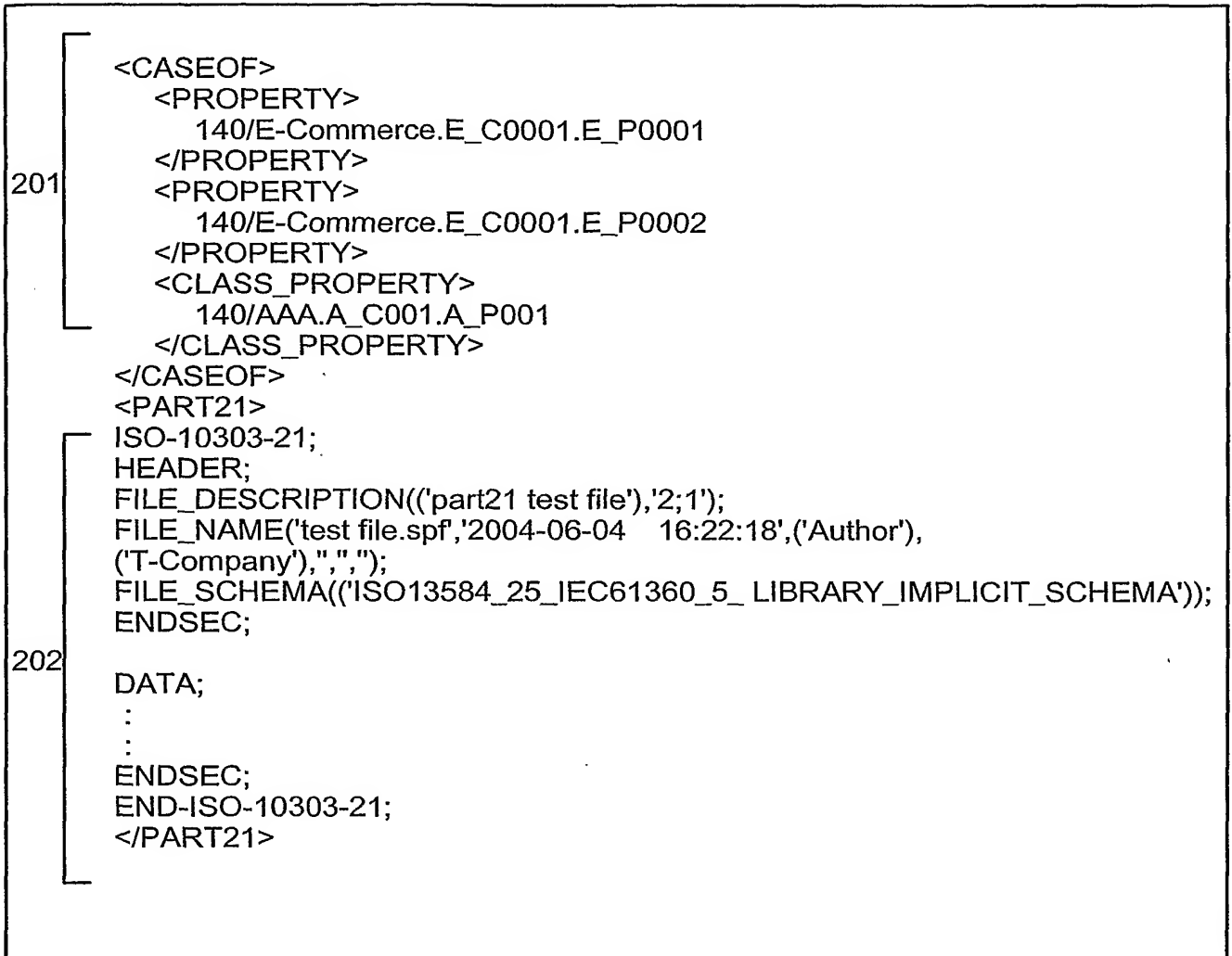
FIG.9



- 1 . SYMBOLS, S, C, AND P IN ELLIPSOIDS INDICATE SUPPLIER, CLASS, AND PROPERTY, RESPECTIVELY.
- 2 . COLORED ELLIPSOIDS INDICATE AN IDENTIFIER + ENTITY, WHILE NON-COLORED ONES CONTAIN ONLY IDENTIFIER.
- 3 . ARROWED THICK DOTTED LINES REPRESENT A REFERENCING RELATION.
- 4 . A THIN DOTTED LINE REPRESENTS A RELATION, IN WHICH ANY REFERENCE IS NO LONGER REQUIRED DUE TO ACQUISITION OF THE ENTITY INTO THE REFERENCING-FROM DICTIONARY

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## FIG.10



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## FIG.11

```
:  
FILE_NAME('test.spf','2004-06-04 16:22:18'('author'),('T-company',  
'<caseof><property>140/E-commerce.E-C0001.E-P00001</propery></caseof>',  
'<caseof><property>140/E-commerce.E-C0001.E-P00002</propery></caseof>',  
'<caseof><class_property>140/AAA.A-C001.A-P001</class_propery></caseof>'),  
",",");  
:
```

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## FIG.12

```
ENTITY extension_item_class_case_of  
SUBTYPE OF item_class_case_of;  
  imported_areas : LIST OF text;  
END_ENTITY;
```

## FIG.13

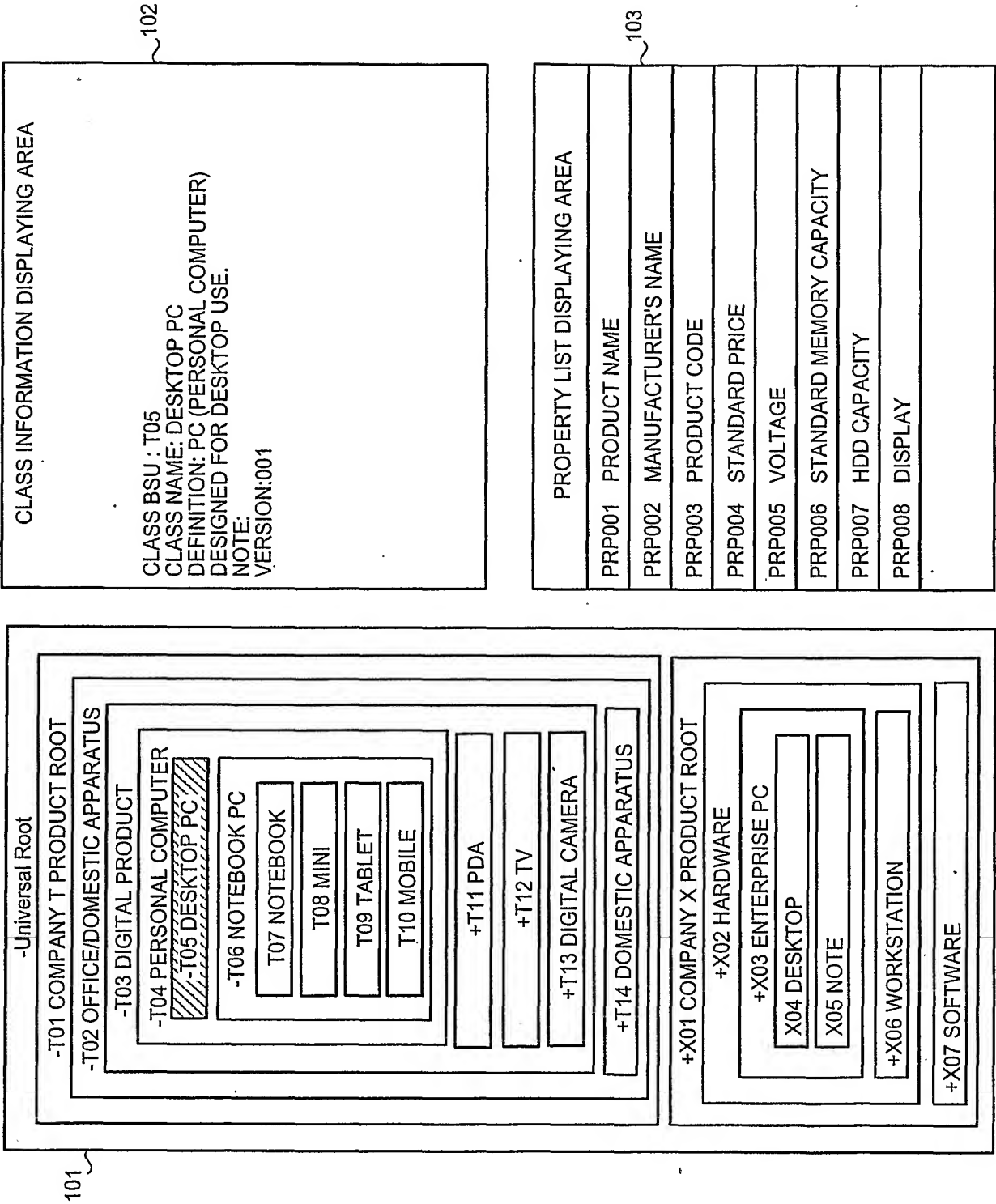
< BEFORE EXTENSION >

:  
#16548=ITEM\_CLASS(#10,#16565,'001',#16546,#16542,#16540,\$,\$,#16556,(#11798,  
#11787,#11775,#11714),(),\$(),(),\$);

< AFTER EXTENSION >

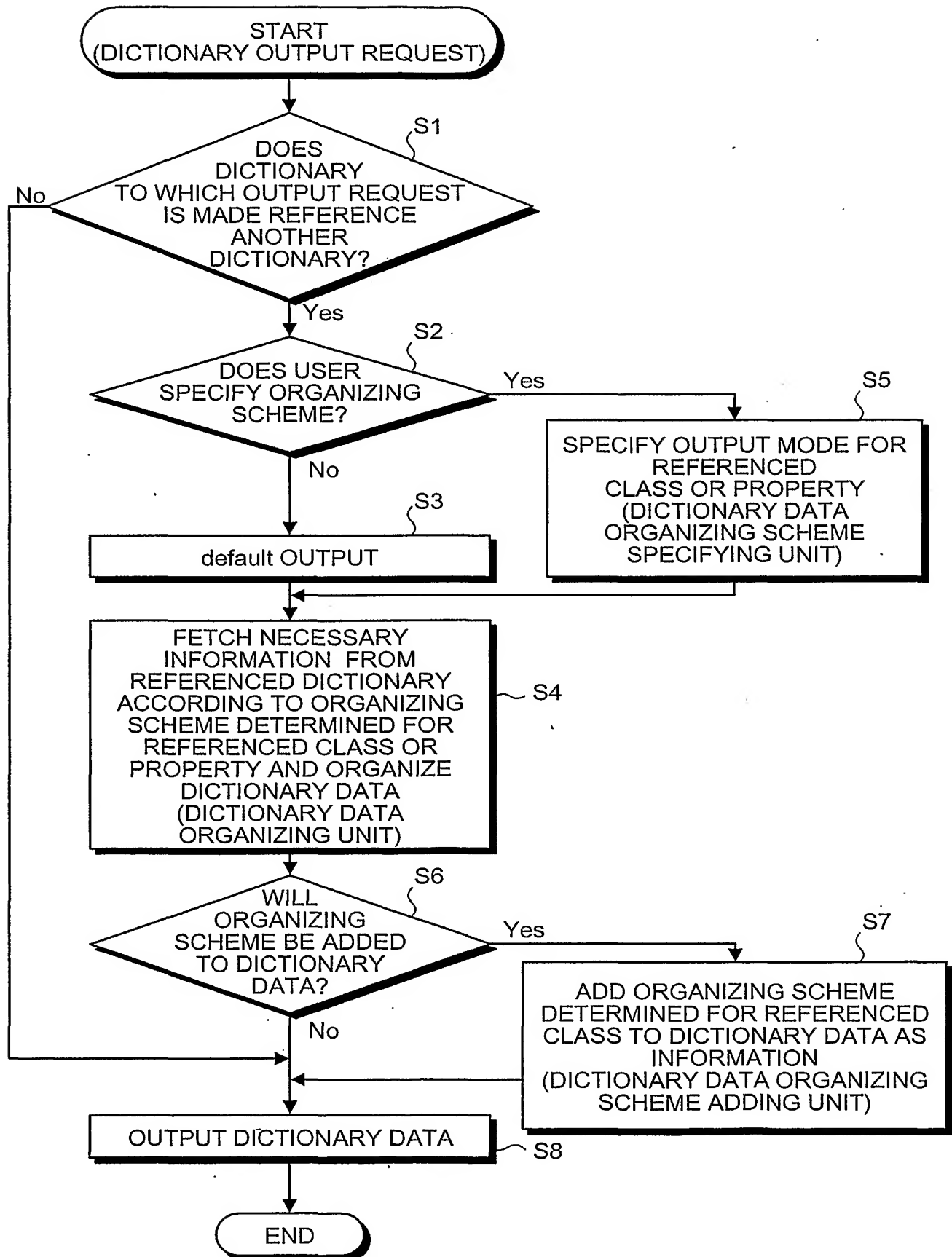
:  
#16548=ITEM\_CLASS(#10,#16565,'001',#16546,#16542,#16540,\$,\$,#16556,(#11798,  
#11787,#11775,#11714),(),\$(),(),\$,  
( '<property>140/E-commerce.E-C0001.E-P00001</property>',  
'<property>140/E-commerce.E-C0001.E-P00002</property>',  
'<class\_property>140/AAA.A-C001.A-P001</class\_property>')));  
:

FIG.14



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FIG.15



## FIG.16

```

:
: SYNCOPATED
:
/* SUPPLIER INFORMATION */
#16567=SUPPLIER_BSU('140/TOPAS//',*);
#16570=SUPPLIER_ELEMENT(#16567,#16571,'001',#16569,#16568);
#16571=DATES('2003-10-29','2003-10-29','2003-10-29');
#16569=ORGANIZATION('TOPAS','T-company','T-company');
#16568=ADDRESS($,'1-1-1','Shibaura',$,'Minato-ku','Tokyo','105-
8001','JAPAN','+81-3-3457-4511','',$,$);
/* CLASS INFORMATION */
#16556=CLASS_BSU('TOPAS_C000001','001',#16567);
#16557=ITEM_CLASS_CASE_OF(#16556,#16564,'001',#16555,#16550,$,$,$,#1
6565,(#12100,#12091,#12082,#12072,
#12062,#12051,#12040,#12029,#11987),
(),$(),(),$,*,*,*,*,*,*(#10),(#112660,#112650),(),(),());
#16564=DATES('2004-06-04','2004-06-04','2004-06-04');
#16555=ITEM_NAMES(#16554,(#16551),LABEL(""),#1008,$);
#16554=TRANSLATED_LABEL(('NOTE PC','ノートPC'),#1008);
#16551=LABEL_WITH_LANGUAGE('PC','en');
#16550=TRANSLATED_TEXT(('note type personal computer','ノート型のパーソ
ナルコンピュータ'),#1008);
#1008=PRESENT_TRANSLATIONS(('en','ja'));
:
: SYNCOPATED
:
/* REFERENCED CLASS INFORMATION*/
#2=SUPPLIER_BSU('140/E-Commerce//',*);
#10=CLASS_BSU('EC_C0001','001',#2);
#112650=PROPERTY_BSU('EC_P0001','005',#10);
/* REFERENCED PROPERTY INFORMATION*/
#7534=NON_DEPENDENT_P_DET(#112650,#16564,'001',#7532,#7527,$,$,$,$(),
$,$,#7524,$);
#7532=ITEM_NAMES(#7531,(#7528),LABEL(""),#1008,$);
#7531=TRANSLATED_LABEL(('STANDARD PRICE','標準価格'),#1008);
#7528=LABEL_WITH_LANGUAGE('PRICE','en');
#7527=TRANSLATED_TEXT(('price by JPY, either a general standard price or a
referential price.','日本円で表した標準価格'),#1008);
#7524=REAL_MEASURE_TYPE('NR2..0.3',#7523);
#7523=DIC_UNIT(#7522,$);
#7522=NON_SI_UNIT(#7521,'JPY');
#7521=DIMENSIONAL_EXPONENTS(0.,0.,0.,0.,0.,0.,0.);
#112660=PROPERTY_BSU('EC_P0002','005',#10);
#7620=NON_DEPENDENT_P_DET(#112660,#16564,'001',#7618,#7614,$,$,$,$(),
$,$,#6657,$);
#7618=ITEM_NAMES(#7617,(),LABEL(""),#1008,$);
#7617=TRANSLATED_LABEL(('END DATE OF SALES','販売終了日'),#1008);
#7614=TRANSLATED_TEXT(('the date the sale of the product is to end','販売を終
了する日付'),#1008);
#6657=STRING_TYPE('M..512');

ENDSEC;
END-ISO-10303-21;

```



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## FIG.17

:  
 SYNCOPATED  
 :

```

/* REFERENCED CLASS INFORMATION */
#2=SUPPLIER_BSU('140/E-Commerce/', *);
#16556=CLASS_BSU('EC_ROOT','001',#2);
#10=CLASS_BSU('EC_C0001','001',#2);
#16548=ITEM_CLASS(#10,#16565,'001',#16546,#16542,#16540,$,$,#16556,(#117
98,#11787,#11775,#11714),(),$,$,$,$);
#16565=DATES('2004-06-04','2004-06-04','2004-06-04');
#16546=ITEM_NAMES(#16545,(),LABEL(""),$,$);
#16545=TRANSLATED_LABEL(('E-Commerce','イーコマース'),#1008);
#16542=TRANSLATED_TEXT(('Class for E-Commerce','電子商取引のためのクラス
'),#1008);
/* REFERENCED PROPERTY INFORMATION*/
#112650=PROPERTY_BSU('EC_P0001','005',#10);
#7534=NON_DEPENDENT_P_DET(#112650,#16564,'001',#7532,#7527,$,$,$,$,(),
$,$,#7524,$);
#7532=ITEM_NAMES(#7531,(#7528),LABEL(""),#1008,$);
#7531=TRANSLATED_LABEL(('STANDARD PRICE','標準価格'),#1008);
#7528=LABEL_WITH_LANGUAGE('PRICE','en');
#7527=TRANSLATED_TEXT(('price by JPY, either a general standard price or a
referential price.','日本円で表した標準価格'),#1008);
#7524=REAL_MEASURE_TYPE('NR2..0.3',#7523);
#7523=DIC_UNIT(#7522,$);
#7522=NON_SI_UNIT(#7521,'JPY');
#7521=DIMENSIONAL_EXPONENTS(0.,0.,0.,0.,0.,0.,0.);
#112660=PROPERTY_BSU('EC_P0002','005',#10);
#7620=NON_DEPENDENT_P_DET(#112660,#16564,'001',#7618,#7614,$,$,$,$,(),
$,$,#6657,$);
#7618=ITEM_NAMES(#7617,(),LABEL(""),#1008,$);
#7617=TRANSLATED_LABEL(('END DATE OF SALES','販売終了日'),#1008);
#7614=TRANSLATED_TEXT(('the date the sale of the product is to end','販売を終
了する日付'),#1008);
#6657=STRING_TYPE('M..512');

ENDSEC;
END-ISO-10303-21;

```

## FIG.18

```

:
: SYNCOPATED
:
/* REFERENCED SUPPLIER INFORMATION*/
#2=SUPPLIER_BSU('140/E-Commerce/',*);
#21=SUPPLIER_ELEMENT(#2,#22,'001',#23,#24);
#22=DATES('2003-10-29','2003-10-29','2003-10-29');
#23=ORGANIZATION('EC','E-Commerce','Organization for E-Commerce');
#24=ADDRESS('$','1-1-1','Shibaura','$','Minato-ku','Tokyo','105-8001','JAPAN','+81-3-3457-4511','',$,$);
/* REFERENCED CLASS INFORMATION */
#16556=CLASS_BSU('EC_ROOT','001',#2);
#10=CLASS_BSU('EC_C0001','001',#2);
#16548=ITEM_CLASS(#10,#16565,'001',#16546,#16542,#16540,$,$,#16556,(#11798,#11787,#11775,#11714),(),$,$,$);
#16565=DATES('2004-06-04','2004-06-04','2004-06-04');
#16546=ITEM_NAMES(#16545,(),LABEL(''),$,$);
#16545=TRANSLATED_LABEL(('E-Commerce','イーコマース'),#1008);
#16542=TRANSLATED_TEXT(('Class for E-Commerce','電子商取引のためのクラス'),#1008);
/* REFERENCED PROPERTY INFORMATION */
#112650=PROPERTY_BSU('EC_P0001','005',#10);
#7534=NON_DEPENDENT_P_DET(#112650,#16564,'001',#7532,#7527,$,$,$,$,(),$,$,#7524,$);
#7532=ITEM_NAMES(#7531,(#7528),LABEL(''),#1008,$);
#7531=TRANSLATED_LABEL(('STANDARD PRICE','標準価格'),#1008);
#7528=LABEL_WITH_LANGUAGE('PRICE','en');
#7527=TRANSLATED_TEXT(('price by JPY, either a general standard price or a referential price.','日本円で表した標準価格'),#1008);
#7524=REAL_MEASURE_TYPE('NR2..0.3',#7523);
#7523=DIC_UNIT(#7522,$);
#7522=NON_SI_UNIT(#7521,'JPY');
#7521=DIMENSIONAL_EXPONENTS(0.,0.,0.,0.,0.,0.,0.);
#112660=PROPERTY_BSU('EC_P0002','005',#10);
#7620=NON_DEPENDENT_P_DET(#112660,#16564,'001',#7618,#7614,$,$,$,$,(),$,$,#6657,$);
#7618=ITEM_NAMES(#7617,(),LABEL(''),#1008,$);
#7617=TRANSLATED_LABEL(('END DATE OF SALES','販売終了日'),#1008);
#7614=TRANSLATED_TEXT(('the date the sale of the product is to end','販売を終了する日付'),#1008);
#6657=STRING_TYPE('M..512');

ENDSEC;
END-ISO-10303-21;

```

FIG.19

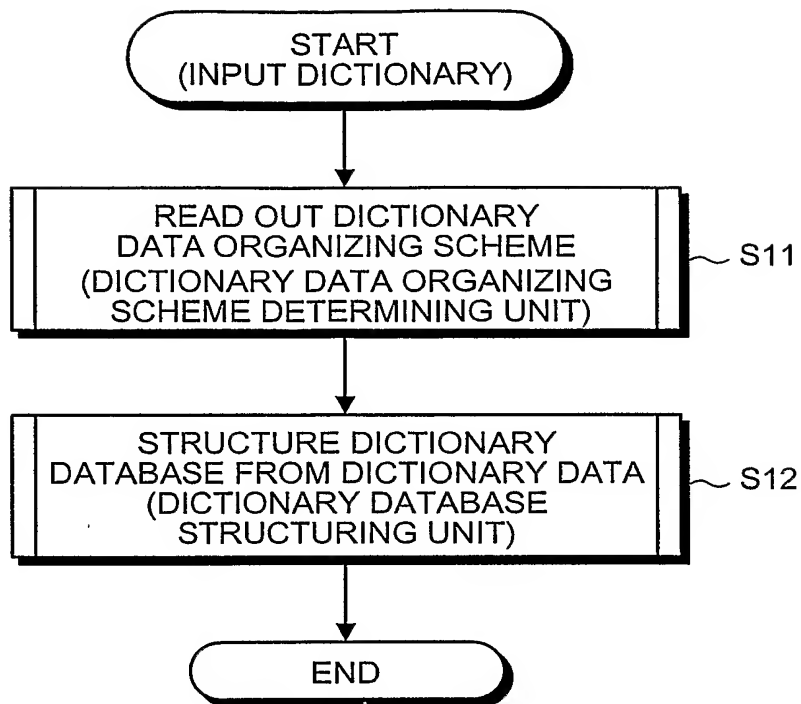
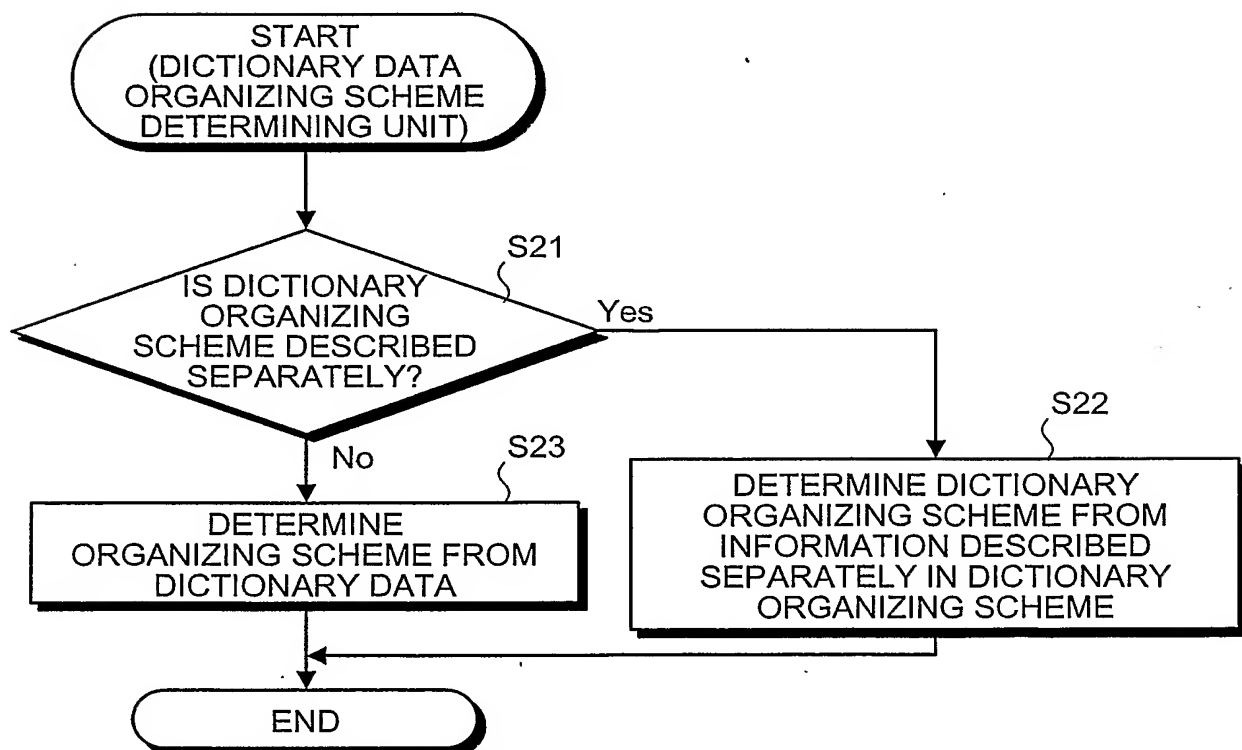


FIG.20



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FIG.21

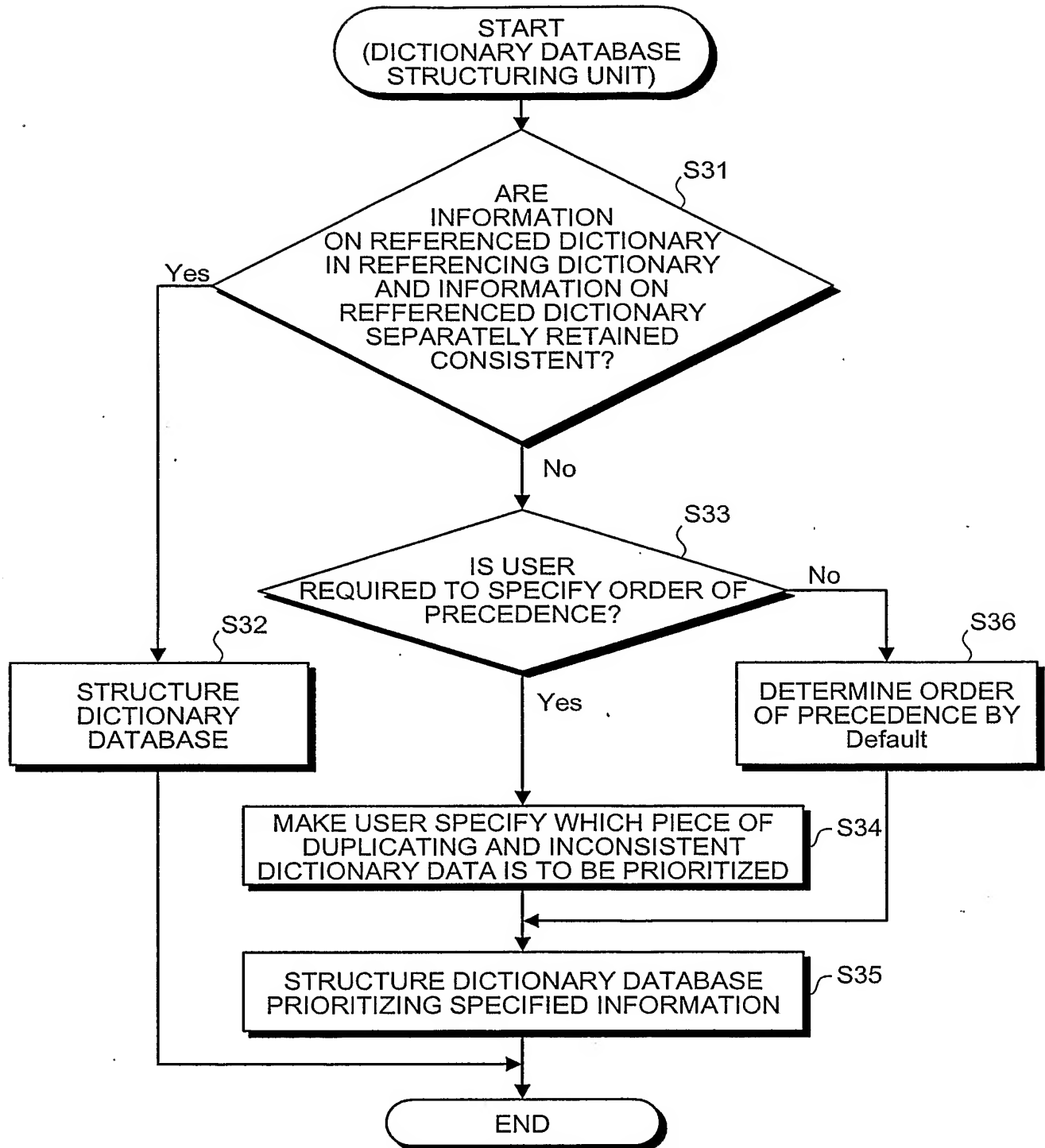


FIG.22

